

Date: Tue, 19 Apr 94 12:45:23 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #434
To: Info-Hams

Info-Hams Digest Tue, 19 Apr 94 Volume 94 : Issue 434

Today's Topics:

 Alinco DR130 Frequency Expansion
 ARLB035 NEW RULES ON MESSAGES
Commercial Radio Exams at Hosstraders (Rochester NH) and Cambridge MA
 FCC Delays
 Illinois anti scanner legislation
Internet > Packet gateways?? (2 msgs)
 Missing: Good HF Propagation
 SAREX Keps 4/14 at 0:40 UTC
 SAREX Keps 4/15/94 at 16:40 UTC
 SAREX R/S Times 4/15
 Underground Radio

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Mon, 18 Apr 1994 17:45:20 GMT
From: ihnp4.ucsd.edu!swrinde!emory!darwin.sura.net!mlb.semi.harris.com!
controls.ccd.harris.com!drs@network.ucsd.edu
Subject: Alinco DR130 Frequency Expansion
To: info-hams@ucsd.edu

I once had my Alinco DJ160 converted to cover additional MARS frequencies.
I had this done by the Alinco representative at a hamfest. Does anyone know
for sure the procedure to convert a DR130 for same coverage? Is it just a
wore snip? Which one, and is there any other secrets needed to complete it?

Thanks in advance. Suggest responses go directly to me so an unauthorized mod.

doesn't get published.

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-----  
|           Doug Snowden           |  
|           N4IJ / AFA2ME          |  
| email: drs@ccd.harris.com       |  
-----
```

Date: Tue, 19 Apr 1994 13:05:28 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
marcbg@network.ucsd.edu
Subject: ARLB035 NEW RULES ON MESSAGES
To: info-hams@ucsd.edu

QST DE W1AW
ARRL BULLETIN 35 ARLB035
FROM ARRL HEADQUARTERS
NEWINGTON CT APRIL 18, 1994
TO ALL RADIO AMATEURS

SB QST ARL ARLB035
ARLB035 NEW RULES ON MESSAGES

THE FCC HAS RELEASED ITS REPORT AND ORDER IN PR DOCKET 93-85,
REGARDING MESSAGES RELAYED BY AMATEUR HIGH SPEED NETWORKS. THE NEW
RULES, EFFECTIVE JUNE 1, 1994, WILL ESTABLISH WHAT THE FCC CALLS 'A
COMPLIANCE POLICY FOR AMATEUR STATIONS PARTICIPATING IN AUTOMATIC
MESSAGE-FORWARDING SYSTEMS.'

THE NEW RULES RELIEVE MOST STATION OPERATORS IN SUCH NETWORKS OF
RESPONSIBILITY FOR THE CONTENT OF THE MESSAGES RELAYED BY THEIR
STATIONS. UNDER CURRENT RULES, ALL LICENSEES IN A CHAIN OF
FORWARDING STATIONS ARE RESPONSIBLE FOR MESSAGE CONTENT.

ORIGINATORS OF MESSAGES CONTINUE TO BE RESPONSIBLE, AND THE FIRST
FORWARDING STATIONS ARE RESPONSIBLE EITHER FOR THE CONTENT OF THE
MESSAGE OR FOR VERIFYING THE IDENTITY OF THE ORIGINATOR.

THE FCC ALSO RELIEVED REPEATER CONTROL OPERATORS OF RESPONSIBILITY
FOR INADVERTENT RETRANSMISSION OF COMMUNICATIONS THAT VIOLATE THE
RULES. ALL OPERATORS REMAIN RESPONSIBLE FOR DISCONTINUING
COMMUNICATIONS THAT VIOLATE THE RULES AS SOON AS THEY BECOME AWARE
OF THEIR PRESENCE.

MORE INFORMATION ON THE NEW RULES WILL APPEAR IN JUNE QST.

--

Marc Grant
home: marcbg@netcom.com work: marcbg@esy.com Voice Mail: 214-246-1150
Amateur Radio N5MEI

Date: 19 Apr 94 16:53:38 GMT
From: agate!howland.reston.ans.net!usc!bloom-beacon.mit.edu!senator-
bedfellow.mit.edu!w1gsl@ucbvax.berkeley.edu
Subject: Commercial Radio Exams at Hosstraders (Rochester NH) and Cambridge MA
To: info-hams@ucsd.edu

Subject: Commercial Radio Exams at Hosstraders - Rochester NH and Cambridge MA

** MROP, GROL and GMDSS exams at Hosstraders ** Sat. May 7th 1994 **

** MROP, GROL and GMDSS exams in Cambridge MA ** Sat. May 14th 1994 **

** Added "Regulatory Fee" coming in July **

The MIT Radio Exam Team will conduct exams for the General Radiotelephone Operators License, the Marine Radio Operators Permit and the Global Marine Distress and Safety Systems Maintainer Licenses. The exams will be held at 1PM Saturday May 7th at the Hosstraders Fleamarket in Rochester NH. and at 10AM Saturday May 14th in Cambridge MA at 77 Mass Ave in MIT Room 1-150.

The Hosstraders Flea is a very large amateur radio event held twice a year at the Rochester NH fairground located on Rt 202 just east of Rt 16 exit 13.

A regular schedule of exams is planned for Cambridge MA on the second Saturday of odd numbered months. For more information call Nick at 617 253 3776 (9-5).

There is a \$35 examination fee. Bring the ** original ** and a copy of any commercial license or proof of passing certificates you want to claim credit for. Also bring 2 forms of picture ID, a black pen and a pencil.

** If you are thinking of getting a commercial licence now may be the time. The FCC is talking about imposing an additional "regulatory fee" after July 1. This will probably be \$105 - ouch- for GROL applicants. Since the GROL is a lifetime license getting it now avoids the fee.

Copies of the question pools are available from the Government Printing office or from W5YI at 1 800 669 9594. This is probably the best study guide available for the moment. A few copies are available for pickup in Cambridge.

The General Radio Telephone Operators License is required to service transmitters in the aviation, maritime and international radio services. A Maritime Radio Operators Permit is required to operate radiotelephone stations aboard large ships and certain aviation and coast stations.

At a later date exams will be available for the Commercial Radio Telegraph operators licenses and the Global Maritime Distress and Safety Systems Operator (GMDSS-O) licenses. Amateur Extra Class operators may be particularly interested in obtaining a commercial telegraph license as they will receive credit for the 20 WPM 2nd class code exam.

The MIT Radio Exam Team operates under the auspices of the National Radio Examiners COLEM, part of the W5YI group.

Date: Fri, 15 Apr 1994 23:28:24 GMT
From: ihnp4.ucsd.edu!swrinde!emory!news-feed-2.peachnet.edu!concert!salzo!toybox!
hruska@network.ucsd.edu
Subject: FCC Delays
To: info-hams@ucsd.edu

I took my Technician exam on Feb. 1 and received my license 9 weeks later (last week!)

--

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+-----+
| Bob Hruska  KE4KVQ DoD #1982 | email: hruska@toybox.raleigh.nc.us |
| Raleigh, NC                  | Exit the Gates of Hell - run Linux! |
+-----+
```

Date: Tue, 19 Apr 1994 13:15:19 GMT
From: ihnp4.ucsd.edu!pacbell.com!att-out!cbnewsd!russell@network.ucsd.edu
Subject: Illinois anti scanner legislation
To: info-hams@ucsd.edu

Ted Moran of C.A.R.M.A. (Chicago Area Radio Monitoring Association) brought this to my attention. This should be of intrest to the

amateur community as well as the scanner enthusiast. Even if you do not live in Illinois, it would be worth writing the Illinois Legislature and the Governor, voicing your opposition to this bill. Your state might be next!

>FLASH - IMPORTANT - ACT NOW...

>

>HOUSE BILL 4180 - 88TH GENERAL ASSEMBLY

>STATE OF ILLINOIS 1993 AND 1994

>

>INTRODUCED BY REPRESENTATIVE CROSS ON 12 APRIL 1994

>

>SYNOPSIS AS INTRODUCED 720 ILCS 5/31-9 NEW

>

>LRB8814416RCMB Sec.31-9

>

>Amends the Criminal code of 1961. Prohibits the possession of a
>receiver or transceiver capable of monitoring or broadcasting
>police, fire, or other municipal radio frequencies unless the
>device operates exclusively on alternating current power. Penalty
>is a Class B misdemeanor. Exempts peace officers, fire officials,
>municipal employees, agents acting in an official capacity, and
>the press.

>

>THIS IS OUTLANDISH! Write to the members of the Illinois
>Legislature, and the Governor. Especially this fellow Cross. This
>is clearly in violation of the FCC directive on laws restricting
>the possession of amateur radio equipment. Your PRO-2006 and most
>other Base radios can be powered by 12VDC, and thus would be made
>illegal under this proposal. Pass this message onto other BBS
>systems. Notify every amateur radio operator you know, and the
>ARRL. Get ready to write a lot of letters. I will post a complete
>address list for the Illinois House of Reps in the next few days.

>

>Note that the press are exempt. Act now or don't complain when
>they arrest you for listening to the radio. This is not a joke.
>This is real. It's time once again to defend our rights, what are
>you going to do? - Ted / Chicago Area Radio Monitoring Association.

--

Russell Keating, N9LIL -----> Send email to: russell1@intgp1.att.com

Date: Tue, 19 Apr 1994 12:59:26 GMT

From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!csulb.edu!csus.edu!
netcom.com!marcbg@network.ucsd.edu

Subject: Internet > Packet gateways??
To: info-hams@ucsd.edu

Well, I searched news.answers here and couldn't find anything, so ...

Does anyone have a list of Internet > Packet gateways? I use N0ARY, but would like to find others closer to some other geographic locations.

Thanks in advance and best 73.

--

Marc Grant
home: marcbg@netcom.com work: marcbg@esy.com Voice Mail: 214-246-1150
Amateur Radio N5MEI

Date: 19 Apr 94 17:42:56 GMT
From: dog.ee.lbl.gov!ihnp4.ucsd.edu!library.ucla.edu!news.ucdavis.edu!
dale.ucdavis.edu!ez045506@ucbvax.berkeley.edu
Subject: Internet > Packet gateways??
To: info-hams@ucsd.edu

Marc B. Grant (marcbg@netcom.com) wrote:

: Well, I searched news.answers here and couldn't find anything, so ...
: Does anyone have a list of Internet > Packet gateways? I use N0ARY, but
: would like to find others closer to some other geographic locations.
: Thanks in advance and best 73.
: --
: Marc Grant Voice Mail: 214-246-1150
: home: marcbg@netcom.com work: marcbg@esy.com Amateur Radio N5MEI

Info is available via ftp from oak.oakland.edu
pub/hamradio/docs/packet-internet

Have fun!

Timothy McNulty N6HFS tjmcnulty@ucdavis.edu

Date: 19 Apr 94 16:36:43 GMT
From: agate!howland.reston.ans.net!math.ohio-state.edu!magnus.acs.ohio-state.edu!
csn!col.hp.com!fc.hp.com!news.lvld.hp.com!bills@ucbvax.berkeley.edu
Subject: Missing: Good HF Propagation
To: info-hams@ucsd.edu

In article <2ouqd3\$206@cville-srv.wam.umd.edu>, Scott Richard Rosenfeld

(ham@wam.umd.edu) wrote:

> Missing: Decent HF Propagation. Last seen about 2 weeks ago, floating
> through the ether at around 14.020 MHz. However, it has been slowly
> going away for about 4 years, since I last worked India with my dipole.

> If anyone should find my missing propagation, PLEASE send it to:

> ham@wam.umd.edu or just send it in the direction of Burtonsville, MD.

> I miss it very much, and would really like it back.

I, too, got tired of cleaning the shack so I made a few K\$ sacrifice to the
radio gods for a new rig. It helped! I had a short chat last night with a
VP2. At least he was outside of the U.S. :-(

Bill

Bill Standerfer	*	Hewlett-Packard Company
CFI-A, IA, ME	*	VXI Systems Division
bill@lvld.hp.com	*	Loveland, CO 80539
Baron N222AB - KF0DJ - Pikes Peak 253	*	303-679-2378

Date: Mon, 18 Apr 1994 14:14:29 -0400

From: ncar!asuvax!pitstop.mcd.mot.com!mcdphx!schbbs!mothost!lmpsbbs!NewsWatcher!
user@ames.arpa

Subject: SAREX Keps 4/14 at 0:40 UTC

To: info-hams@ucsd.edu

In article <940413205252.2b80de4e@STDVAX.GSFC.NASA.GOV>,
ABFHB@STDVAX.GSFC.NASA.GOV wrote:

> SB SAREX @ AMSAT \$STS-59.017
> SAREX Keps 4/14 at 0:40 UTC
>
> Greenbelt, MD, 4/14/94 at 0:40 UTC
>

(ORBITAL DATA DELETED)

Orbital data is posted in the rec.radio.amateur.space newsgroup. Please
feel free to post your original contributions in that area only. Duplicate
postings of materials already in that newsgroup, such as the bulletins from

ARRL and AMSAT which automatically appear there, are frowned upon. Do not
cross-post this information into other newsgroups; that's why we have
groups with separate titles and fields of coverage.

>

> Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group
>
> /EX

--

Karl Beckman, P.E. < STUPIDITY is an elemental force for which >
Motorola Comm - Fixed Data < no earthquake is a match. -- Karl Kraus >

The statements and opinions expressed here are not those of Motorola Inc.
Motorola paid a marketing firm a huge sum of money to get their opinions;
they have made it clear that they do not wish to share those of employees.

Amateur radio WA8NVW @ K8MR.NEOH.USA.NA NavyMARS VBH @ NOGBN.NOASI

Date: Mon, 18 Apr 1994 14:21:57 -0400
From: ncar!asuvax!pitstop.mcd.mot.com!mcdphx!schbbs!mothost!lmpsbbs!NewsWatcher!
user@ames.arpa
Subject: SAREX Keps 4/15/94 at 16:40 UTC
To: info-hams@ucsd.edu

In article <940415124946.2b813d49@STDVAX.GSFC.NASA.GOV>,
ABFHB@STDVAX.GSFC.NASA.GOV wrote:

> SB SAREX @ AMSAT \$STS-59.018
> SAREX Keps 4/15 at 16:40 UTC
>
> Greenbelt, MD, 4/15/94 at 16:40 UTC
>
> The official SAREX element set for today is JSC-021. This element set
> was generated by Gil Carman, WA5NOM, of the Johnson Space Flight Center.
>

(ORBITAL DATA DELETED)

Frank, orbital data is posted in the rec.radio.amateur.space newsgroup
only. Please feel free to post your original contributions in that area.
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postings of materials already in that newsgroup, such as the bulletins from

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>
> Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group
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Amateur radio WA8NVW @ K8MR.NEOH.USA.NA NavyMARS VBH @ NOGBN.NOASI

Date: Mon, 18 Apr 1994 14:26:01 -0400
From: ncar!asuvax!pitstop.mcd.mot.com!mcdphx!schbbs!mothost!lmpsbbs!NewsWatcher!
user@ames.arpa
Subject: SAREX R/S Times 4/15
To: info-hams@ucsd.edu

In article <940415141025.2b813d49@STDVAX.GSFC.NASA.GOV>,
ABFHB@STDVAX.GSFC.NASA.GOV wrote:

> SB SAREX @ AMSAT \$STS-59.019
> STS-59 Eastern R/S Times 04/15
>

(ORBITAL DATA DELETED)

Frank, orbital data is posted in the rec.radio.amateur.space newsgroup
only. Please feel free to post your original contributions in that area.
Duplicate
postings of materials already in that newsgroup, such as the bulletins from

ARRL and AMSAT which automatically appear there are frowned upon. Please do
not cross-post this information into other newsgroups; that's why UseNet
has groups with separate titles and fields of coverage.

Also, I believe that it is considered proper netiquette that postings not
include multiple messages with different \$BID numbers.

>
>
> Compiled by Dan Schultz, N8FGV
> Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group
> Send comments to n8fgv@amsat.org
> /EX

--
Karl Beckman, P.E. < STUPIDITY is an elemental force for which >
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Amateur radio WA8NVW @ K8MR.NEOH.USA.NA

NavyMARS VBH @ NOGBN.NOASI

Date: 19 Apr 94 16:00:57 GMT
From: news-mail-gateway@ucsd.edu
Subject: Underground Radio
To: info-hams@ucsd.edu

Question: What would be the best band for communication inside of caves.

I have done much research on the subject of underground communications and have written several papers, and designed handheld and base station equipment specifically for communicating in mines and caves. The best frequency, after many years of measuring propagation in tunnels is in the range of 300 to 1500 kilohertz--yes kilohertz. The secret is both the frequency and the antenna. The antenna must be a current loop so that the radiated signal couples into the host rock or better yet couples into a passive wire extending the length of the tunnel. Without the wire, at these Medium Frequencies (MF), you can expect to communicate about 1000 to 2000 feet with a power level of 10 watts. With the wire I have communicated several miles. I have used both SSB and FM. FM has an advantage if one of the stations has a noisy receive location.

Direct communication from underground to the surface can be easily done by keying a CW audio frequency (1700 Hz) into a large loop antenna and receiving with a loop antenna fed into a tuned audio amplifier. Great, if there is no power line noise! That can be with by a DSP filter. Voice can be used on the downlink (hundreds of watts if you need to go deep) but because you can't carry a big enough battery, the uplink is usually CW.

The other possibility is UHF/VHF. However, in most cases, you can throw the radio further than you can communicate. The actual distance depends on both the electrical characteristics of the rock (permeability and permittivity) and the cross sectional dimensions of the tunnel. The bigger the better. Communicating around large fallen rocks and constrictions is a problem. Side tunnels tend to act as shorted or open stubs and attenuate the signal. Leaky coax cables, with or without repeaters are often installed in the tunnels to make the communications system independent of the many variables. Sometimes frequencies that you don't think will work, do work. For example, CB works good in European salt mines but not well in the USA.

Bob, K3ZAU
bob@silver.usbm.gov

Date: Mon, 18 Apr 1994 14:38:03 -0400
From: ncar!asuvax!pitstop.mcd.mot.com!mcdphx!schbbs!mothost!lmpsbbs!NewsWatcher!
user@ames.arpa
To: info-hams@ucsd.edu

References <2ocmf7\$q8c@male.EBay.Sun.COM>, <2oh55d\$srh@male.EBay.Sun.COM>,
<1994Apr14.000704.1452@ptsfa.PacBell.COM>Watcher
Subject : Re: Special receiver needed?

In article <1994Apr14.000704.1452@ptsfa.PacBell.COM>,
dmtur@ptsfa.PacBell.COM (Dave Turner) wrote:

> In article <2oh55d\$srh@male.EBay.Sun.COM> raymonda@uranium.EBay.Sun.COM writes:
> >
> > I'm not familiar with the BSB service in particular, but SCA stands
> >for sub carrier authorization. This means that program material (be it
> ^^^^^^^^^^^
>
> Nope, it is Subsidiary Communications Authorization.
>
> --
> Dave Turner (510) 823-2001 {att,bellcore,sun,ames,decwrl}!pacbell!dmtur@

Well, while we're at it, BSB stands for Broadcast Services for the Blind.
And since subcarrier services are not directly accessible to the public,
eavesdropping on them is a violation of the ECPA. Get the proper
(registered) receiver.

--
Karl Beckman, P.E. < STUPIDITY is an elemental force for which >
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Amateur radio WA8NVW @ K8MR.NEOH.USA.NA NavyMARS VBH @ NOGBN.NOASI

Date: Tue, 19 Apr 1994 14:14:47 GMT
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!csulb.edu!csus.edu!
netcom.com!dgf@network.ucsd.edu
To: info-hams@ucsd.edu

References <2ouqd3\$206@cville-srv.wam.umd.edu>, <cowart.766701427@neptune>,
<CoHI9y.zv@cbnewsm.cb.att.com>
Subject : Re: Missing: Good HF Propagation

In article <CoHI9y.zv@cbnewsm.cb.att.com> jeffj@cbnewsm.cb.att.com
(jeffrey.n.jones) writes:
>In article <cowart.766701427@neptune> cowart@convex.com (Michael Cowart) writes:
>>ham@wam.umd.edu (Scott Richard Rosenfeld) writes:
>>
>>>Missing: Decent HF Propagation. Last seen about 2 weeks ago, floating
>
>Sigh, turned on the radio, went on 20, heard lot's of hiss, few signals. Went
...
>I'm tired of cleaning my shack! 8-)

In the last two weeks, I've sorted out boxes and boxes of old papers in the
basement, got a good start on a power supply for my 2M kilowatt, cleaned
& reorganized the radio room (twice!), cleaned the kitchen (no small task...),
and all of these good deeds have been rewarded with...

More hiss on 20...

:-(

73 Dave WB0GAZ dgf@netcom.com

End of Info-Hams Digest V94 #434
